



## THEMIS Launch Weather Forecast

**Vehicle:** Delta II

**Issued:** 14 Feb 07

**Valid:** 16 Feb 07 / 6:05–6:23 p.m. EDT

**Synoptic Discussion:** The main cold frontal boundary will move through Central FL on Wednesday. Surface high pressure will build in the wake of the cold front and usher in much colder and drier air by Friday and Saturday. **The main concern during the launch window will ground winds >23 kt during the last 4 minutes of the countdown, and to a lesser degree thick layered clouds.**

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Few	5,000	5,500
Cirrus	Scattered	25,000	26,000

**Weather:** Partly Cloudy  
**Visibility:** 10 Miles  
**Wind:** 300° @ 12 G 20 KT  
**Temperature:** 44 - 46°F

**Solar Activity:** N/A  
**Pressure:** 30.15 INS  
**RH:** 50%

**Launch day overall probability of violating weather constraints:** **20%**

**Primary concern(s):** Thick Cloud Rule, Ground winds

**24-hour delay overall probability of violating weather constraints** **10%**

**Primary concern(s):** Thick Cloud Rule, Ground winds

**48-hour delay overall probability of violating weather constraints** **N/A**

**Primary concern(s):**

**Sunrise:** 16 / 0700 EST  
17 / 0659 EST

**Sunset:** 16 / 1814 EST  
17 / 1814 EST

**Moonrise:** 16 / 0623 EST  
17 / 0703 EST

**Moonset:** 16 / 1719 EST  
17 / 1828 EST

**Illumination:** 16 / 01%  
17 / 00%

**Next forecast will be issued:** 15 Feb 07